**Reviewer’s report**

**Title:** Effect of Three Remplissage Techniques on Tendon Coverage and Shoulder Kinematics: A Navigated Robotic Biomechanical Study

**Version:** 0 **Date:** 15 Nov 2015

**Reviewer:** Paolo Paladini

**Reviewer's report:**

Dear Colleague,

the paper is very interesting, considering the increased interest in the technique of remplissage and the decrease in the rate of recurrent instability after this procedure.

The design of the study is interesting, even if the results did not leave much room for differentiation between the results of the three different techniques of the study.

The three hypotheses of the study obtain responses in all cases even if we cannot know what will be the practical application of the performed procedure.

In practice, I can know that the humerus can not engage on the glenoid, that the rotational torque increases and that, among the three procedures, there is one with more coverage of the fracture of Hill Sachs.

You do not have any evidence, however, that these three findings will change the destiny of this shoulder and which of the three techniques can ensure a brighter future for the patient treated.

Abstract: row 69-72: we have no evidence that the bigger coverage area can decrease the recurrence rate. This is an performed not based on data of the paper. (See also the conclusion).

I believe that, with minimal adjustments related to the previously mentioned, the paper is eligible for publication on BMC

**Are the methods appropriate and well described?**
If not, please specify what is required in your comments to the authors.

Yes

**Does the work include the necessary controls?**
If not, please specify which controls are required in your comments to the authors.

No

**Are the conclusions drawn adequately supported by the data shown?**
If not, please explain in your comments to the authors.

Yes

**Are you able to assess any statistics in the manuscript or would you recommend an additional statistical review?**

If an additional statistical review is recommended, please specify what aspects require further assessment in your comments to the editors.

I am able to assess the statistics

**Quality of written English**

Please indicate the quality of language in the manuscript:

Acceptable

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